

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| S1 | 0 | (381/122,92,56,233).ccls. and calibration and (phase adj2 signatur\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 16:47 |
| S2 | 0 | (381/122,92,56,233).ccls. and (phase adj2 signatur\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 12:53 |
| S3 | 0 | (381/122,92,56,233).ccls. and (calibration same phase adj4 tabl\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 12:53 |
| S4 | 1 | (381/122,92,56,233,66).ccls. and (calibration same phase adj4 tabl\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 15:07 |
| S5 | 2 | (381/122,92,56,233,66).ccls. and (calibration same phase same tabl\$2) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 12:53 |
| S6 | 9 | "5737431".URPN. | USPAT | OR | OFF | 2004/08/26 13:05 |
| S7 | 52 | (381/122,92,66,233,56).ccls. and localizat\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2007/02/20 18:43 |
| S8 | 52 | "4689821".URPN. | USPAT | OR | OFF | 2004/08/26 13:16 |
| S9 | 1 | (acoustic adj3 localiza\$4) near2 phase | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 13:19 |
| S10 | 4 | (acoustic adj3 localiza\$4) near4 phase | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 13:29 |
| S11 | 105 | (spatial adj3 loca\$5) near4 phase | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 13:34 |
| S12 | 60 | (sound adj3 loca\$5) near4 phase | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 13:34 |
| S13 | 392 | (381/92).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/26 13:35 |
| S14 | 7 | ("5412735" "5757932" "5757933" "5796848" "5917921" "6044162" "6272229").PN. | USPAT | OR | OFF | 2004/08/26 13:46 |
| S15 | 0 | "intel".AS. and acoustic adj2 localiza\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:10 |
| S16 | 1 | "intel".AS. and acoustic adj2 localiza\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:10 |

EAST Search History

| | | | | | | |
|-----|-----|--|---------------------------------|----|-----|------------------|
| S17 | 2 | phase adj2 signature adj4 table | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:32 |
| S18 | 0 | localizat\$4 same (phase adj4 table) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:34 |
| S19 | 0 | localizat\$4 same (phase adj3 angl\$2 near3 table) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:34 |
| S20 | 231 | phase adj3 angl\$2 near3 table | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 15:42 |
| S21 | 1 | (phase adj3 angl\$2 near3 table) same sound | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:34 |
| S22 | 0 | (phase adj3 angl\$2 near3 table) same acoustic | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:35 |
| S23 | 0 | (381/122,92).ccls. and phase near2 table | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 16:05 |
| S24 | 0 | (phase adj3 angl\$2 near3 table) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:38 |
| S25 | 4 | (phase adj3 angl\$2 near3 table) and microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:39 |
| S26 | 14 | (creat\$3 adj4 phase adj3 table) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:40 |
| S27 | 38 | calibra\$4 same (phase adj3 table) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 15:36 |
| S28 | 1 | ("6774934").PN. | USPAT; USOCR | OR | OFF | 2004/08/26 15:35 |
| S29 | 8 | ("3601530" "4536887" "5465302" "5686957" "5737431" "6469732" "6483923" "6618485").PN. | USPAT | OR | OFF | 2004/08/26 15:28 |
| S30 | 4 | ("5581620" "5629855" "5737431" "5778082").PN. | USPAT | OR | OFF | 2004/08/26 15:35 |
| S31 | 70 | calibra\$4 and (phase adj3 table) and sound | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 15:37 |
| S32 | 3 | calibra\$4 and (phase adj3 table) same sound | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 15:37 |

EAST Search History

| | | | | | | |
|-----|-----|--|---|----|-----|------------------|
| S33 | 11 | (phase adj3 table) same sound | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 15:39 |
| S34 | 4 | (phase adj3 table) same acoustic | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 15:39 |
| S35 | 6 | creat\$3 adj3 phase adj3 tables | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 15:42 |
| S36 | 171 | (381/122,92).ccls. and phase same microphon\$2 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 16:06 |
| S37 | 1 | ("5459790").PN. | USPAT; USOCR | OR | OFF | 2004/08/26 17:20 |
| S38 | 0 | ("20020097885").PN. | USPAT; USOCR | OR | OFF | 2004/08/26 17:23 |
| S39 | 1 | ("20020097885").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/26 16:37 |
| S40 | 2 | ((("20030223588") or ("20030002684")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/26 16:36 |
| S41 | 163 | (381/66).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | OFF | 2004/08/26 13:34 |
| S42 | 41 | (381/66).ccls. and microphone\$2 same reflect\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:22 |
| S43 | 0 | "intel".AS. and phase adj2 signature | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:32 |
| S44 | 1 | "intel".AS. and phase same sound same reflect\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 13:58 |
| S45 | 6 | "intel".AS. and sound same reflect\$4 same microphon\$2 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 17:58 |
| S46 | 1 | graumann.in. and sound same reflect\$4 same microphon\$2 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 16:32 |
| S47 | 1 | "intel".AS. and spatial near2 localization | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 13:58 |
| S48 | 1 | (381/66).ccls. and (localizat\$4) same (phase adj3 signat\$4) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 13:59 |

EAST Search History

| | | | | | | |
|-----|-----|---|---------------------------------|----|-----|------------------|
| S49 | 1 | (381/66).ccls. and (localizat\$4) same (phase) same microphone | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 17:52 |
| S50 | 6 | acoustic same (phase adj3 signature) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 13:18 |
| S51 | 5 | "intel".AS. and phase near4 signature | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 14:10 |
| S52 | 9 | (381/66).ccls. and localizat\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 14:27 |
| S53 | 8 | (sum near2 beamform\$3) same sound | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 14:26 |
| S54 | 7 | "5737485".URPN. | USPAT | OR | OFF | 2004/08/13 14:25 |
| S55 | 26 | (sum near2 beamform\$3) same source | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 14:26 |
| S56 | 4 | (sum near2 beamform\$3) same localization | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 14:26 |
| S57 | 29 | (381/122,92).ccls. and localizat\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 13:07 |
| S58 | 117 | (381/122,92).ccls. and reflect\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 14:31 |
| S59 | 5 | (381/122,92).ccls. and reflect\$4 same localizat\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/13 14:32 |
| S60 | 11 | (381/122,92).ccls. and reflect\$4 and localizat\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2004/08/26 11:42 |
| S61 | 1 | ("20030072456").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2004/08/26 11:33 |
| S62 | 19 | (381/122,92,56,233).ccls. and reflect\$4 and localizat\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 16:07 |
| S63 | 3 | (381/66).ccls. and (localizat\$4) same (phase) and micropho\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 17:52 |
| S64 | 1 | "intel".AS. and sound same reflect\$4 and microphon\$2 and videoconferen\$6 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:01 |

EAST Search History

| | | | | | | |
|-----|-----|---|---------------------------------|----|-----|------------------|
| S65 | 14 | ("4239356" "4312053" "4400724" "4639904" "5099456" "5625410" "5664021" "5686957" "5715319" "5742693" "5778082" "5787183" "D381024" "D389839").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/05/22 17:59 |
| S66 | 4 | "intel".AS. and reflect\$4 and microphon\$2 and videoconferen\$6 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:03 |
| S67 | 14 | reflect\$4 and microphon\$2 and videoconferen\$6 and ears | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:02 |
| S68 | 15 | "intel".AS. and reflect\$4 and videoconferen\$6 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:03 |
| S69 | 106 | ("381"/\$).ccls. and localizat\$3 and microphones and reflect\$4 and ears | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:27 |
| S70 | 88 | ("381"/\$).ccls. and localizat\$3 and microphones and reflect\$4 and ears and phase | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:05 |
| S71 | 1 | (381/66).ccls. and microphone\$2 same reflect\$4 same ears | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:09 |
| S72 | 4 | (381/66).ccls. and microphone\$2 same ears | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:10 |
| S73 | 46 | ("381"/\$).ccls. and microphone\$2 same ears same locali\$9 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:13 |
| S74 | 19 | ("381"/\$).ccls. and microphone\$2 same locali\$8 and (ears with reflect\$4) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 19:35 |
| S75 | 1 | (381/66).ccls. and microphone\$2 and (reflect\$4 with ears) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:22 |
| S76 | 63 | (381/66).ccls. and microphones | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 18:22 |
| S77 | 0 | ("381"/\$).ccls. and microphone\$2 same locali\$8 and (ears with reflect\$4) and (phase adj2 tab\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 19:36 |
| S78 | 0 | microphone\$2 same locali\$8 and (ears with reflect\$4) and (phase adj2 tab\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 19:37 |
| S79 | 17 | microphone\$2 same locali\$8 and (ears with reflect\$4) and (phase) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/22 19:37 |

EAST Search History

| | | | | | | |
|-----|-----|--|---------------------------------|----|-----|------------------|
| S80 | 105 | (wave adj2 frequen\$4) with (phase adj2 ang\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 12:47 |
| S81 | 3 | (wave adj2 frequen\$4) with (phase adj2 ang\$3) with table | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 12:47 |
| S82 | 22 | (wave adj2 frequen\$4) with (phase adj2 ang\$3) and sound | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:04 |
| S83 | 3 | (differen\$3) with microphones with (phase adj2 ang\$3) and sound | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:08 |
| S84 | 6 | (differen\$3) with (phase adj2 ang\$3) same microphones and sound | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:22 |
| S85 | 7 | (differen\$3) with (phase adj2 ang\$3) same microphones | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:16 |
| S86 | 2 | (phase adj2 differen\$3) with microphones with (detect\$3 adj2 frequenc\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:19 |
| S87 | 4 | (phase) with microphones with (detect\$3 adj2 frequenc\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:21 |
| S88 | 0 | (phase) with microphones with (frequenc\$3) same (predeterm\$5 adj2 locati\$4) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:22 |
| S89 | 0 | (phase with microphones with frequenc\$3) same (predeterm\$5 adj2 locati\$4) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:22 |
| S90 | 0 | (phase adj2 ang\$3) same microphones same frequenc\$4 same predetermi\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:23 |
| S91 | 1 | (phase adj2 ang\$3) same microphones same frequenc\$4 same location | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:39 |
| S92 | 0 | (phase adj2 table) same microphones same frequenc\$4 same location | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:40 |
| S93 | 0 | (phase adj2 table) same microphones same frequenc\$4 and location | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:40 |
| S94 | 0 | (phase adj2 table) same microphones same frequenc\$4 and localization | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:40 |

EAST Search History

| | | | | | | |
|----------|-----|--|---------------------------------|----|-----|------------------|
| S95 | 0 | (phase adj2 table) same microphones same frequenc\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:40 |
| S96 | 2 | (phase adj2 table) and microphones same frequenc\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 15:40 |
| S97 | 0 | (phase adj2 mapping) and microphones same frequenc\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 16:07 |
| S98 | 47 | (381/122,92,56,233).ccls. and phase same (positon or location) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 16:13 |
| S99 | 0 | (381/122,92,56,233).ccls. and high adj2 resolution adj2 spectral adj2 analysis | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/30 14:04 |
| S10 0 | 103 | high adj2 resolution adj2 spectral adj2 analysis | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 16:14 |
| S10 1 | 1 | (high adj2 resolution adj2 spectral adj2 analysis) and microphones | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 16:14 |
| S10 2 | 131 | (spectral adj2 analysis) and microphones and phase | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/28 16:14 |
| S10 3 | 1 | (381/122,92,56,233).ccls. and (difference with distance with microphones) same (detect\$3 with frequen\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/30 14:06 |
| S10 4 | 1 | ("381"/\$).ccls. and (difference with distance with microphones) same (detect\$3 with frequen\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/30 14:10 |
| S10 5 | 0 | ("381"/\$).ccls. and phase same (table or map\$4) same frequenc\$5 same (predetermined or priori) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/30 14:11 |
| S10 6 | 0 | phase same (table or map\$4) same frequenc\$5 same (predetermined or priori) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2005/05/30 14:11 |
| S10 7 | 2 | graumann.in. and sound same reflect\$4 same microphon\$2 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/01/29 17:13 |
| S10 8 | 1 | S107 and detect\$2 and phase and signatur\$2 and spatial and first and second and calibrat\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 13:07 |
| S10 9 | 108 | detect\$2 and phase and signatur\$2 and microphones and angles | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 13:08 |

EAST Search History

| | | | | | | |
|----------|-----|--|---------------------------------|----|-----|------------------|
| S11 0 | 48 | detect\$2 and phase and signatur\$2 and microphones and angles and calibrat\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 13:55 |
| S11 2 | 550 | "367"/\$.ccls.and (phase or delay or (phase adj2 angle)) and (table or map\$4) and (detect\$3 with frequen\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 14:22 |
| S11 3 | 12 | "367"/\$.ccls.and (phase or delay or (phase adj2 angle)) same (table or map\$4) same (detect\$3 with frequen\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 14:23 |
| S11 4 | 1 | (381/122,92,66).ccls. and (calibration same tabl\$2) same (phase or delay or (phase adj2 angle)) same (detect\$3 near2 frequen\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 15:09 |
| S11 5 | 18 | (calibration same tabl\$2) same (phase or delay or (phase adj2 angle)) same (detect\$3 near2 frequen\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 15:09 |
| S11 6 | 820 | (700/94).CCLS. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 15:09 |
| S11 7 | 0 | 700/94.ccls. and (calibration same tabl\$2) same (phase or delay or (phase adj2 angle)) same (detect\$3 near2 frequen\$5) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/07 15:10 |
| S11 8 | 276 | (367/125).CCLS. | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:15 |
| S11 9 | 7 | S118 and (table or map\$4) same frequen\$5 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:44 |
| S12 0 | 32 | S118 and microphones | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:44 |
| S12 1 | 21 | S118 and microphones and phase and frequen\$5 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:48 |
| S12 2 | 2 | graumann.in. and sound same reflect\$4 same microphon\$2 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:46 |
| S12 3 | 1 | S122 and first and second and location and reflector and surface | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:46 |
| S12 4 | 12 | S118 and microphones and phase and frequen\$5 and reflect\$4 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:50 |

EAST Search History

| | | | | | | |
|----------|---|--|--|----|-----|------------------|
| S12 5 | 0 | S118 and microphones and phase and frequen\$5 and human and ear | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:51 |
| S12 6 | 2 | S118 and microphones and phase and frequen\$5 and human | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/02/08 10:51 |
| S12 7 | 0 | graumann.in. and sound same reflect\$4 same microphon\$2 and delay and disable | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/26 16:33 |
| S12 8 | 0 | graumann.in. and sound and reflect\$4 and microphon\$2 and delay and disable | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/26 16:33 |
| S12 9 | 3 | graumann.in. and sound and reflect\$4 and microphon\$2 and delay | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/26 16:33 |
| S13 0 | 2 | ((("20030223588") or ("20030002684")).PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/26 16:36 |
| S13 1 | 0 | S130 and delay | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/26 16:36 |
| S13 2 | 0 | ("S39anddelay").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/26 16:37 |
| S13 3 | 1 | ("20020097885").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/26 16:37 |
| S13 4 | 1 | S133 and delay | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/26 16:39 |
| S13 5 | 1 | S133 and delay same micropho\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/26 16:39 |
| S13 6 | 0 | (381/122,92,56,233,11).cccls. and (after response) with location with source with delay with micropho\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 16:50 |

EAST Search History

| | | | | | | |
|----------|-----|--|--|----|-----|------------------|
| S13 7 | 0 | (381/122,92,56,233,111).ccls. and (after response) with location with source with delay with micropho\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 16:50 |
| S13 8 | 41 | (381/122,92,56,233,111).ccls. and location same source same delay same micropho\$3 | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 16:55 |
| S13 9 | 0 | (381/122,92,56,233,111).ccls. and ((determin\$3 find\$3 response) with (location position)) same (select\$6 with (disable off) with micropho\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 16:56 |
| S14 0 | 4 | (381/122,92,56,233,111).ccls. and ((determin\$3 find\$3 response) with (location position)) same ((disable off) with micropho\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 16:58 |
| S14 1 | 12 | (381/122,92,56,233,111).ccls. and ((location position) with source) same ((disable off) with micropho\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 16:59 |
| S14 2 | 120 | (381/122,92,56,233,111).ccls. and ((disabl\$4 off) near3 micropho\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/27 10:40 |
| S14 3 | 3 | (381/122,92,56,233,111).ccls. and ((location position) with source) same ((disabl\$4 off) near3 micropho\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/26 17:00 |
| S14 4 | 753 | 381/92 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 10:39 |
| S14 5 | 7 | (381/122,92,56,233,111).ccls. and beamform\$3 and source and (calibrat\$4 optimiz\$6) and ((disabl\$4 off) near3 micropho\$3) | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2006/09/27 10:52 |
| S14 6 | 6 | (381/122,92,56,233,111).ccls. and beamform\$3 and source and (calibrat\$4 optimiz\$6) and ((disabl\$4 off) near3 micropho\$3) and delay | US-PGPUB; USPAT; EPO; JPO | OR | OFF | 2007/02/20 18:32 |
| S14 7 | 6 | (381/122,92,56,233,111).ccls. and beamform\$3 and source and (calibrat\$4 optimiz\$6) and ((disabl\$4 off) near3 micropho\$3) and delay | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 10:50 |
| S14 8 | 2 | birchfield.in. and source and microphone and localization | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 11:48 |

EAST Search History

| | | | | | | |
|----------|-----|---|--|----|-----|------------------|
| S14 9 | 1 | quindi.AS. and source and microphone and localization | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 10:51 |
| S15 0 | 11 | ("20030179890" "4536887" "4581758" "5465302" "5526433" "5737431" "5778082" "5959667" "6005610" "6600824" "6774934").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/27 11:10 |
| S15 1 | 161 | S144 and source and (localization localisation location) and delay | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 11:41 |
| S15 2 | 11 | S150 and delay | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/27 11:32 |
| S15 3 | 3 | S150 and delay and (disable off) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/27 11:11 |
| S15 4 | 10 | S150 and delay and (ear human speech) | US-PGPUB; USPAT; USOCR | OR | OFF | 2006/09/27 11:32 |
| S15 5 | 126 | S144 and source and (localization localisation location) and delay and (ear human speech) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 11:46 |
| S15 6 | 0 | S144 and source and (localization localisation location) and delay and (pinnea) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 11:46 |
| S15 7 | 0 | birchfield.in. and source and microphone and localization and teleconfer\$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 11:49 |
| S15 8 | 6 | finn.in. and DVE and voice and talker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2006/09/27 11:50 |
| S15 9 | 13 | (381/122,92,91,56,233,111,66).ccls. and (reflect\$2 with direction with microphone) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/20 18:36 |

EAST Search History

| | | | | | | |
|----------|-----|---|--|----|-----|------------------|
| S16 0 | 119 | (381/122,92,66,233,56).ccls. and localizat\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/20 18:57 |
| S16 1 | 58 | (381/122,92,66,233,56).ccls. and localizat\$3 and reflect\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/20 18:44 |
| S16 2 | 11 | ("20030179890" "4536887" "4581758" "5465302" "5526433" "5737431" "5778082" "5959667" "6005610" "6600824" "6774934").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2007/02/20 18:49 |
| S16 3 | 20 | (381/122,92,66,233,56).ccls. and (acoustic near3 reflect\$2) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/21 10:27 |
| S16 4 | 9 | ("4965775").URPN. | USPAT | OR | OFF | 2007/02/20 19:17 |
| S16 5 | 16 | (acoustic near3 reflect\$2) same (human same ear) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/20 19:26 |
| S16 6 | 10 | ("4997056").URPN. | USPAT | OR | OFF | 2007/02/20 19:25 |
| S16 7 | 185 | ((acoustic sound) near3 reflect\$2) same (direct\$4 same microphones) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/20 19:27 |
| S16 8 | 1 | (381/122,92,66,233,56).ccls. and (GCC-PHAT) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/21 10:28 |
| S16 9 | 1 | ("381"/\$).ccls. and (GCC-PHAT) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/21 10:28 |
| S17 0 | 4 | ("381"/\$).ccls. and (cross near2 correlation near3 phase near2 transform) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2007/02/21 10:31 |